

DC VOLTAGE SURGE SUPPRESSOR WITH DISTRIBUTED CAPACITANCE  
EMI FILTERING AND IMPEDANCE MATCHING

ABSTRACT

An electromagnetic interference filter and surge suppression apparatus comprising: a first filter operably connected in series with the first power input terminal and a first output terminal and an impedance comprising a first conductor on a first layer of a circuit card forming a distributed inductance in series with the second filter, the impedance also including a second conductor on a second layer of the circuit card operably connected to a ground, the first conductor and the second conductor forming a distributed capacitance.